

AVIATION

The Oldest American Aeronautical Magazine

NOVEMBER 15, 1926

Issued Weekly

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VOLUME
XXI

SPECIAL FEATURES

NUMBER
20

ATLANTA-MIAMI AIR MAIL SUCCESSES
COMMERCIAL AVIATION IN THE NATIONAL DEFENSE
FLIERS' ASPECTS OF AEROGRAHY

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under Act of March 3, 1879.



The Byrd North Pole plane on ice at Mabel Field, L. I., completing the first leg of its United States tour

(c) The World Photo



(a) The World Photo

Floyd Bennett, who flew over the North Pole with Byrd, and who paints the plane on its United States tour

Byrd North Pole plane tour

To promote interest in commercial aviation

THE daring feat of Commander Richard E. Byrd and Pilot Floyd Bennett from Spitzbergen to the North Pole and return was an achievement of note in the history of air travel and exploration.

The celebrated North Pole Plane is now making a tour of the United States, and is scheduled to visit some forty cities between the Atlantic and Pacific. This flight is sponsored by the Daniel Guggenheim Fund for the Promotion of Aeronautics and has for its objective furthering the use and development of commercial aviation and air mail, and stimulating the building of air ports by towns and municipalities throughout the country.

Mr. Bennett's experience with the excellent performance of Gipsy Moth "B" in the Wright Whirlwind Engines on the Polar Flight, prompted him to see to it personally that Mabel would be used throughout his present tour.

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NOVEMBER 15, 1925

AVIATION

VOL. XXI NO. 20

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AVIATION

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Last Minute Thoughts on the Schneider Cup

BY THE time the race of AVIATION appears, the international race for the JACOBS SCHNEIDER CUP will have taken place and either Italy or the United States will hold the supreme speed honor for 1926, in this great contest. Few details are available at this time regarding the Italian. Much newspaper news has, from photographs of the machines, some of which are published elsewhere in this issue of AVIATION, that it is absolutely no secret that they reflect extreme credit upon the Maestri and that companies, which, respectively, produced both planes and engines, and upon Italian aeronautical development in general.

While little is as yet known regarding the three Italian Maestri machines, there are some details regarding the American machines which are of interest. In the first place, the three Curtiss Racers are almost identical, with the exception of engines. Of the two higher powered machines, one is fitted with a Portcullis engine and the other with a Curtiss engine, each developing 300 hp. The former is geared, while the latter is a direct drive engine. It has been customary to use only direct drive engines in air racing, the high propeller speeds at low pitch have considered superior to lower rotational speeds at higher pitch.

When the direct drive engine may give in one direction the great credit may make up for in another. For example, the streamlining of the cylinder heads of the engine is a major plane has always been a complicated problem over which a compromise has to be made. It will be observed, in the case of the Curtiss machine, that the purpose of the propeller shaft brings the long hubber up, which has enabled the complete enclosure of the cylinder heads in a - so both aerodynamically streamlined. Obviously the function of this machine will have a lower drag than that of the Curtiss machine. But the latter may give on the development of the engine.

Pilots will meet also an important part in the race. Two of the corners of the transverse course are provided mainly for man to show more the same points in last year's race course. Talbot shows course in these high speed airplanes, research experimental and it may even develop that the slower machines will have a marked advantage over the faster on the second. Pilots have always proved a very vital question in high speed air races.

Meteorology and Aviation

TOO MUCH stress cannot be placed upon the importance of a knowledge of meteorology in the successful operation of an air transportation line. There is, in fact, only one day of insurance service which is more or less immune from weather conditions and that class includes, of course, the various and numerous forms

of land travel. On the water or in the air, however, the conditions are entirely different and the side on the weather will always have a marked bearing upon such transport services.

It has long been one of the most important requirements of a ship's master, that he be thoroughly acquainted with at least the rudimentary facts concerning weather problems. Right down to the modern ships at sea, this fact holds and it is a point of even more importance in the case of air navigation. It does not appear that the degree of understanding of the conditions of aerography by airline pilots and air masters is only to be gained after a long and extensive study. It would appear rather that the requirements will for a reasonable study of the science of aerography together with the accumulated knowledge gained from the continual experience of regular air operations.

The Light Plane for the Flying Public

SIXTY YEARS ago AVIATION started a lightplane department which has run for some time with a view to manufacturing lightplane development. Since then, many lightplanes of excellent design have been built and have made many fine flights. AVIATION is still as trusted and still believes in the possibilities of these little machines. However, if the truth is to be adhered to, it must be admitted that lightplane development has not sold in the large quantities which were expected. As a recent editorial, this fact was pointed out, and in a spirit of criticism of the really splendid performance of some of the lightplanes, but rather with the idea of suggesting a possible reason why these splendid performances did not result in sales.

The editorial brought in letters from many parts of the United States and even from abroad, drawing our attention to many fine flights which had been made in lightplanes. The letters really renewed the argument which the editor put forth, that, in spite of the numerous, the public had not as yet taken to the lightplane. In connection with the solution of the problem, the idea occurred that the major effort which had been put into lightplane development had gone into remodeling a design which was to be driven by professional pilots, in more and more complicated and that, as a result, the designers had, to a considerable extent, lost sight of the fact that the future of the lightplane lies with the amateur pilot. Insufficient effort and thought has gone into the design and construction of the lightplane. From waterline lightplanes to the more and more flying with the pilots the public has missed the idea that lightplanes are simple and difficult to handle. While this is undoubtedly not always the case, it is this feeling which must be overcome if the lightplane is to become popular. The low-powered compound design has a great future but it will not come into the open until it can be flown with ease and safety by inexperienced pilots.



The Arrow Sport low rider (Arrow, 30-35 hp.)

aviation, which has been a long time expected, namely, the need for a small two-place machine with low initial and with the cost of upkeep of a minimum, and within reach of any person wishing to own a small plane for pleasure.

The Arrow Sport, after 15 hr. of flight work, has been found to be exceptionally stable, with a steadiness and freedom of vibration in the air that is excellent. The little plane has been put through every rattle and rattle that has been possible for the test pilot to think of, with the exception of spinning, which it will not do readily. In a 75 m.p.h. wind, the Arrow Sport was found to be controlled as easily as in a dead calm. The plane has ample aileron and tail control

Wing Section

The wings are of full cabriole construction, having no wingplan bending on either upper or lower wing. They are of the thick section type, tapering both in plan and profile. The lower wing is attached with four bolts, and recesses into the purling of the fuselage. The upper wing is supported by four strut-brace struts with wire bracing.

The Fuselage

The fuselage is of conventional design with wood lagging and wire glider construction. It has a herring on the sides and bottom, giving the fuselage a rounded section streamline form.

The undercarriage has a single strut on each side, with wire bracing, fore and aft, and an axle of normal type. The

tail group consists of no more except controls. The horizontal stabilizer is of full cabriole construction. The rudder has a large balance portion, giving the rudder, which is operated by cables, very free action.

The engine mounting is of steel plate construction and the Jansen engine is well suited.

The Ailerons

The ailerons are of special note in view of the fact that they have the positive control through tubes direct to the cockpit. The machine has single ailerons only on the lower wings.

The following are the dimensions and the manufacturer's performance figures:

Span, total wings	30 ft.
Wingtip spread	10 ft. 6 in.
Wing chord	10 ft. 6 in.
Wing area	100 sq. ft.
Wing weight	400 lb.
Wing loading	40 lb. per sq. ft.
Wing strength	100 lb. per sq. ft.
Performance fully loaded (350 lb.)	
Speed, max.	70 m.p.h.
Altitude, max.	4,000 ft.
Altitude, cruising	2,000 ft.
Service ceiling	4,000 ft.
Performance with pilot alone (200 lb.)	
Speed, max.	75 m.p.h.
Altitude, max.	4,500 ft.
Altitude, cruising	2,500 ft.
Service ceiling	4,500 ft.



The Arrow Sport (Arrow, 30-35 hp.). Note the pure cabriole tapered wings.



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ON AIRWAYS MAPS

Side Slip

Dr. Richard H. Chaberski

[illegible]

From our observations extending over a period of quite a few years, we have reached the conclusion that no one can claim to be anything but a second-rate airplane pilot until he has mastered the technique of landing up to the eaves of the field, jumping gracefully out of the cockpit, and demanding a cigarette from the nearest aviator's neighbor. There are lots of good pilots in the country, but only the men who have actually "landed" can put over this cigarette-borrowing flourish.

We are not yet sure that we have the situation completely in hand, but at least we can report progress. Two weeks have passed now, without anyone claiming to have delivered an electric stove by airplane for the first time in history.

It seems that the airplane manufacturers have been working along all of these years with the wrong ideas altogether. At a banquet the other night one of the speakers said that commercial aviation will never be a success until "cheap airplanes will be spread over the land." Most of the designers with whom we are associated have been trying pretty hard to keep their customers from being "spread over the land."

Aircraft Exports

The Bureau of Foreign and Domestic Commerce reports that domestic exports of aircraft and engines, from the United States, during the month of August, were as follows:

Diseases	Ergonomics		Agriculture		Partly omitted in 1994
	Number	Relative Prevalence	Number	Relative Prevalence	
Arthritis	10	4.1%	10	4.1%	100
Stroke	10	4.1%	10	4.1%	100
Cardiovascular diseases	10	4.1%	10	4.1%	100
Diabetes	10	4.1%	10	4.1%	100
Chronic obstructive pulmonary disease	10	4.1%	10	4.1%	100
Alcoholism	10	4.1%	10	4.1%	100
Depression	10	4.1%	10	4.1%	100
Substance abuse	10	4.1%	10	4.1%	100
Chronic pain	10	4.1%	10	4.1%	100
Chronic fatigue	10	4.1%	10	4.1%	100
Chronic headache	10	4.1%	10	4.1%	100
Chronic back pain	10	4.1%	10	4.1%	100
Chronic neck pain	10	4.1%	10	4.1%	100
Chronic hand/wrist pain	10	4.1%	10	4.1%	100
Chronic eye pain	10	4.1%	10	4.1%	100
Chronic ear pain	10	4.1%	10	4.1%	100
Chronic nose/throat pain	10	4.1%	10	4.1%	100
Chronic skin pain	10	4.1%	10	4.1%	100
Chronic genital pain	10	4.1%	10	4.1%	100
Chronic bone/joint pain	10	4.1%	10	4.1%	100
Chronic muscle pain	10	4.1%	10	4.1%	100
Chronic nerve pain	10	4.1%	10	4.1%	100
Chronic immune system pain	10	4.1%	10	4.1%	100
Chronic hormonal pain	10	4.1%	10	4.1%	100
Chronic reproductive pain	10	4.1%	10	4.1%	100
Chronic digestive pain	10	4.1%	10	4.1%	100
Chronic respiratory pain	10	4.1%	10	4.1%	100
Chronic circulatory pain	10	4.1%	10	4.1%	100
Chronic urinary pain	10	4.1%	10	4.1%	100
Chronic excretory pain	10	4.1%	10	4.1%	100
Chronic integumentary pain	10	4.1%	10	4.1%	100
Chronic sensory pain	10	4.1%	10	4.1%	100
Chronic motor pain	10	4.1%	10	4.1%	100
Chronic mental pain	10	4.1%	10	4.1%	100
Chronic emotional pain	10	4.1%	10	4.1%	100
Chronic behavioral pain	10	4.1%	10	4.1%	100
Chronic social pain	10	4.1%	10	4.1%	100
Chronic cultural pain	10	4.1%	10	4.1%	100
Chronic spiritual pain	10	4.1%	10	4.1%	100
Chronic religious pain	10	4.1%	10	4.1%	100
Chronic philosophical pain	10	4.1%	10	4.1%	100
Chronic scientific pain	10	4.1%	10	4.1%	100
Chronic artistic pain	10	4.1%	10	4.1%	100
Chronic literary pain	10	4.1%	10	4.1%	100
Chronic musical pain	10	4.1%	10	4.1%	100
Chronic dramatic pain	10	4.1%	10	4.1%	100
Chronic historical pain	10	4.1%	10	4.1%	100
Chronic geographical pain	10	4.1%	10	4.1%	100
Chronic astronomical pain	10	4.1%	10	4.1%	100
Chronic meteorological pain	10	4.1%	10	4.1%	100
Chronic environmental pain	10	4.1%	10	4.1%	100
Chronic ecological pain	10	4.1%	10	4.1%	100
Chronic evolutionary pain	10	4.1%	10	4.1%	100
Chronic cosmological pain	10	4.1%	10	4.1%	100
Chronic ontological pain	10	4.1%	10	4.1%	100
Chronic epistemological pain	10	4.1%	10	4.1%	100
Chronic axiological pain	10	4.1%	10	4.1%	100
Chronic deontological pain	10	4.1%	10	4.1%	100
Chronic teleological pain	10	4.1%	10	4.1%	100
Chronic gnosological pain	10	4.1%	10	4.1%	100
Chronic hermeneutical pain	10	4.1%	10	4.1%	100
Chronic phenomenological pain	10	4.1%	10	4.1%	100
Chronic existential pain	10	4.1%	10	4.1%	100
Chronic philosophical pain	10	4.1%	10	4.1%	100
Chronic scientific pain	10	4.1%	10	4.1%	100
Chronic artistic pain	10	4.1%	10	4.1%	100
Chronic literary pain	10	4.1%	10	4.1%	100
Chronic musical pain	10	4.1%	10	4.1%	100
Chronic dramatic pain	10	4.1%	10	4.1%	100
Chronic historical pain	10	4.1%	10	4.1%	100
Chronic geographical pain	10	4.1%	10	4.1%	100
Chronic astronomical pain	10	4.1%	10	4.1%	100
Chronic meteorological pain	10	4.1%	10	4.1%	100
Chronic environmental pain	10	4.1%	10	4.1%	100
Chronic ecological pain	10	4.1%	10	4.1%	

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N.A.T. Contracts With American Express

New Plan National in Scope.

THE AMERICAN Express Company has taken the first step in a move to transport the company's shipments by air in the service of a national with the National Air Transport, Inc., to carry its problems between New York and Chicago and Chicago and Dallas, Robert E. M. Goss, president of the company, announced recently. One full business day will be saved between New York and Chicago and Chicago and Dallas.

It is planned to transport the packages at night as well as by day, on plane leaving New York for Chicago, another Chicago for New York, still another leaving Chicago for Dallas and the fourth one leaving Dallas for Chicago.

Expenses Planned

Later it is hoped that the service can be extended to San Francisco, Florida lanes, such as Boston to New York, Philadelphia to New York, and others will be established, it is expected later in the Spring. The plane will carry mail and heavy parcels. The issue with the National Air Transport Company, also shows that company to carry United States and

The Associated Press, in its detailed account of the new service, says:

According to the general railway express system, the air service is scheduled to be in full operation on or before April 15, 1936.

"The demand of American commerce for the quickest possible transportation service at all times," Mr. Goss said, "is responsible for the decision."

The establishment of the new service represents the taking of the airway against competition of the coastal and one of the largest private capital air transport operations in the world.

Functions Separated

The Express Company will function in the packing and local delivery of express packages, and the plane transport organization will do the carrying.

By its contract, the Express Company expects to save one full business day in the delivery of express matter, of the one and weight suitable for air transportation, between New York and Chicago and the latter city and Dallas.

In confirming the signing of the contract, Howard E. Goss, president of the National Air Transportation, Inc., announced the celebration of negotiations in person since March, 1935, when the transport agreement was first proposed.

He recalled that in May, 1935, the company had announced that among its principal objectives was the institution of an express service between New York and Chicago, and later on from Chicago to Dallas.

"The signing of these contracts," he said, "has made the realization of many months of research, of experiment and of co-operation official in this end."

Commercial Policy Aided

"It marks also a long step forward in the firm establishment of that privately owned and operated commercial air transport which is the paramount object of all the air legislation which has been enacted in Washington in 1935, and which has become a matter of deep national policy."

"This group of representatives American National Air Transport, Inc. (of which I have the honor to be president), has gone forward courageously and unflinchingly in the protection of its original policy, although the plan was drawn from many parts of the territory which it aimed to serve."

It has operated entirely on its own capital. No stock has been sold to the public, nor is there any such intention. The policy of the company is to give a full, fair and thorough trial to transportation by air.

"On May 1 this year, the first link of the system was accomplished, carrying the air mail between Chicago and Dallas. The record of this has been very satisfactory to us. It has shown approximately 300,000 miles without an accident. It has completed 95% per cent of its scheduled flights. It has completed its first schedule in 92 per cent. It has lost no mail or injured any cargo. It has lost only one machine and forced landing for one \$5,000 value of flying and its total damage is its aircraft through such forced landings has been less than \$500."

Officers

Among the officers of the transport company are the two respective heads of the two parent air companies of America, C. W. Kees, president of the Curtiss Aeroplane & Motor Company, and Charles E. Sorenson, president of the Wright Aeronautical Corporation.

Other present officers are, besides President Goss, Wayne C. Taylor, of Chicago, and Eugene W. Lewis, of Detroit, vice-presidents; John J. Macfarland, of Chicago, treasurer; Carl B. Frieboe, of Detroit, secretary, and Charles W. Caldwell, New York, counsel.

Among the directors or stockholders, no individual names appear under the system, nor are or should more than 5 per cent of the capital, are the following: Theoretical Company, Leonard Kennedy, Jonathan Knicker, Clarence DeLoe, Raymond P. Fish, Walter A. Rockefeller, Raymond Falkland, Oliver H. Curtis and Hubert H. Hays, of New York.

From Chicago are Charles E. Ham, Lester Armour, Philip K. Wrecker, Robert P. Lonsdale, Clark H. Reynolds, Maxwell Field and C. Tulliver.

From Detroit, Walter O. Rogers, Harold R. Benson, George M. Bales, C. F. Kettering, William E. Metzger, Fred J. Fisher and William E. Hays.

From other cities: John Elton Hammond, of Washington, D. C., W. J. Austin, Cleveland; Harold F. Taylor, Jr., Boston; Harold F. Peltier, Philadelphia and C. F. Ludington, Philadelphia.

Flight From Australia to Samoa Planned

It is reported that the Royal Australian Air Force has arranged for a flight from Australia to Samoa by way of New Guinea, the Solomon Islands, New Hebrides, New Caledonia, and Fiji, to be announced soon. The pilot will be Group Captain Williams, Chief of the Australian Air Force, who will be accompanied by a mechanic with experience as a pilot, and a radio operator, who will also operate a camera. The machine to be used is a DH-50 fitted with floats and a Solly-Spence engine of 550 hp.

It is proposed that the route followed will be from Melbourne, via the East Coast of Australia, to Thursday Island, thence round the northeast coast of New Guinea, and along the northeastern coast as far as Wading, from Makindu, the machine will proceed round the southern coast of New Guinea to Rabaul, and thence to the Solomon Islands, Santa Cruz, Delade, New Hebrides, New Caledonia and Fiji. From Fiji it is possible that the machine will visit the Friendly Islands and the Russian group.

It is stated that the main object of the flight is for the purpose of commemorating the World War Termination and the friends of the Southern Pacific from the air, and also to demonstrate the ability of the machine to operate in the most difficult conditions of the air.

AIRPORTS AND AIRWAYS

Kansas City, Mo.

By Towner Vance

The Kansas City Aeronautical Association continues to step up ground interest in aviation over the city and country. Whether or not Richards Field will become permanently the property of Kansas City aviation interests, remains problematical. The K.C.A.A. is disposed to take it over for a five year period, provided the issue includes an "option to purchase" clause, effective at the expiration of the lease or before, upon proper payment. The retention of the issue to include that clause is said to hold up negotiations, and, therefore, other business plans Richards Field are being suggested by various aviation interests with a view to lease or purchase.

By George L. Bennett continues to keep good mail crowds there at weekends. Parties, held by the K.C.A.A.

The Doolittle School recently announced a course of instruction on St. Louis, Missouri, for next summer.

Leo Hurlbut, president of the local chapter of Transamerica has attended nearly a dozen aeronautical meetings in the past few weeks, leading the flying game in general, and the permanent landing field proposition in particular.

Denver, Colo.

By H. J. McHenry

The arrival at Denver of the North Pole Explorer on its tour of the country was given much local press publicity locally, causing the interest of the public to rise as a result that also

the famous glass dyked into Loring Field as extensive work of flying and maintenance created the jobs and passengers.

Denver is rapidly becoming air-minded. The Chamber of Commerce is working enthusiastically on plans for a four-story modern municipal landing field. At Loring, Colo., already being sighted, will be being installed which will place Denver in par with the majority of the airports of the country. The Alexander Aeronautics Company, is completing construction for the purchase of 120 acres of flat land on the outskirts of the city for a new Alexander Airport. Here they will erect a hangar for their own and visiting planes. This will give Denver three well equipped airports and so increase its status in winter flying, which is most prevalent in this city and dry part of the country.

L. C. Miller, pilot of an Alexander plane on his way East and will pilot for the southernmost destination sales manager, L. F. Johnson, of the Alexander Tilt Company, during the winter months. With Kiser will act in the same capacity for George May in the New England district.

Virginia Aids Aviation

The Virginia State Chamber of Commerce at its recent meeting adopted a resolution urging the Virginia General Assembly to pass such legislation as may be necessary to encourage often, terms and conditions of the state to support by purchase, or otherwise, suitable property to be developed, maintained and used in landing fields and airports.

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LAND VETER BLDG

PHILADELPHIA

Bettis Field Dedicated

On Nov. 15 the airport terminal known as the Pittsburgh-McKeesport Airport, near Drexelburg, was named Bettis Field, in honor of Cyrus H. Bettis, late Army colonel, Assistant Secretary of Commerce for Aeronautics. William F. McCord, Jr., was the principal speaker at the ceremony.

Detroit, Mich.

A committee from Detroit and Wayne County, Mich., headed by Solon E. Ross, requests advice for the Mayor of Detroit, on Oct. 18 interviewed War Department officials to obtain technical advice on an airport for Michigan.

Officials of the city have proposed for the proposed Owen Island, located just east of the head of Green Bay, and between Fighting Island and the American mainland. The airport, as planned, will require 600 acres. It is right miles from the center of Detroit.

Brownsville, Tex.

The Bradley field at Brownsville, Tex., which is situated on the West side of the city, is approximately one-half mile square, and has runways to the Northwest and Southwest. It was formerly distinguished from the sea, the same of the city being within one mile of the buildings in 5 ft. The building is equipped with a wind cone. The city wishes to see this field.

A.S.P.A. Will Interest Boy Scouts

The American Society for Promotion of Aviation, 622 Fifth Ave., New York City, desires to hear from former war pilots, commercial fliers, to give certified to interest boys in the fundamentals of aviation. The Society is planning an educational campaign among boys and would like to have the names of men of flying interest who would be willing to give one night a month to talk before Boy Scout troops in their communities.

Boston, Mass.

By David Foxford

The first suspension of a commercial pilot's license, under the Massachusetts air rules, took place Nov. 8, when Inspector of Motor Vehicles Frank Goodwin suspended the license of Adolph Markstrom, who had been guilty of flying low over the football stands leaving the Harvard Stadium, Saturday afternoon in a light plane advertising about.



Tower at Boston, Mass.

Some boys enrolled in the flying course, a record number for the season of the year.

The Colonial Air Transport, Inc., has temporarily shut down its Boston traffic office and is handling its business at its offices in the Boston Airport.

The first license flight in Boston was put in operation recently, on the roof of the Old State House. Perfor Adams, president of the National Aeronautic Association, affiliated Pilot Frank Goodwin and Inspector F. Williams under night flights on the occasion. Mayor Malcolm H. Wilcox of Boston turned on the power.

Service flying from Boston last week included 12 in for the Army, 42 for the Navy and 17 for the National Guard.

The Boston Airport Corporation has suspended its operations.

Considerable interest in European flying conditions was shown at the recent visit of Major Lester D. Gardner to the M.I.T. His talk was followed by questions about details of the various units and their equipment.

St. Joseph, Mo.

The Josephine Ford arrived in St. Joseph Oct. 26, landing on Rosecrans Air Field and remaining on exhibition until Oct. 28, when it left for Omaha. At a luncheon to the crew of the biplane, Pilot Dewart briefly reviewed the story of the trip to the North Pole, stressing its significance to the development of aviation. Charles E. Kerkis, personal representative of Major F. Goodwin, president of the Organization for the Promotion of Aviation, addressed the crowd with a talk on the steps of the Goodwin field and local aviation conditions. His final ground school was on the subject and said that the municipality had, through its officers, spent \$372,000 in promoting aviation. Although St. Joseph has an outstanding place in aviation, Mr. Kerkis said that the people should not be content with their air program. The city is now in a position to attract aviation as a source of traffic and also hereafter for the manufacture of airplanes, and it should continue to enhance its progress.

Major Dewart officially welcomed the crew, the executive building representative of various aviation organizations, Gen. H. Wofford, vice-president of the National Aeronautic Association, Harry Black, governor of the department for Missouri, and A. S. McMillan, president of the St. Joseph chapter.

From Omaha the group went to Denver, from which city it left for a base at the Pacific Coast before returning to Washington, which it will reach by Dec. 1.

Society of War Dents visited St. Joseph Oct. 26 and found the Josephine Ford taken to Rosecrans Field. Four planes from the Seventh Army Corps headquarters at Omaha arrived during the afternoon and performed over the city. Secretary Dewart said that St. Joseph had impressed him with the progress it had made in aviation and he hoped to see an Army unit stationed here.

United States Air Forces

Navy Basing Fighter Does 185 m.p.h.

The PB airplane which Lieutenant Gaddy piloted to victory in the open biplane plane race at Philadelphia, Sept. 11, was shown over the crowded speed course at Annapolis after its return from Philadelphia. On the triangular 15-mile race course Lieutenant Gaddy averaged nearly 184 m.p.h. Over the measured course the plane showed a high speed of 184.5 m.p.h. This performance is a credit to the skilled piloting of Lieutenant Gaddy and to the Proctor Model 18-150 engine, which equips the PB 3. This prototype engine, with a compression volume ratio 7.05 to 1, develops approximately 600 hp. at 2550 r.p.m. and the valve power plant has functioned in a most satisfactory manner.

Fog Dispelling Tests

Look, De Long, Malm, U.S.N., of VT Squadron One, recently conducted fog dispelling tests at Hurlingham, Conn. The first test was made when a cloud at 5,200 ft. altitude, about in shape, about 500 ft. on a mile, was introduced. One trip was made over the top center of the cloud and the wind and the cloud in half. A second trip over the cloud caused it to vanish completely.

A large cloud directly over the city was attacked next day at about 5,200 ft. The plane entered the cloud at about 1,500 ft. altitude. As the cloud was broken and shattered the pilot attempted, he decided to turn aside and get out to avoid any embarrassing complications. To his surprise, on turning around it was discovered that the plane had not a great path in the cloud which enabled him to return to open air without any mishap.

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